

**AMENDMENT NO. 1**

**TO:** Agreement for Professional Engineering Service Dated January 12, 2015.

**BETWEEN:** City of Charlotte

AND

Prein&Newhof

**LOCATION:** Fitch H. Beach Airport, Charlotte, MI

**PROJECT:** C18: Runway 2/20 – Concrete Joint Repair

**PURPOSE:** Establish fees for construction phase services for the project. Scope of work for this amendment shall include Elements 1.20 through 1.29 and 2.21 through 2.22 from the above referenced agreement as amended by Attachment E to this Amendment. The fixed fee for construction phase services shall be sixteen thousand dollars (\$16,000.00). A breakdown of the fee (for informational purposes) is included as Attachment C to this Amendment.

**ACCEPTED BY SPONSOR**

\_\_\_\_\_  
Authorized Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Witness

**ACCEPTED BY CONSULTANT**

  
James A. Cook, Chairman

5-4-15  
Date

  
Signature of Witness

**ATTACHMENT "C"**  
**ESTIMATED MAN HOUR ASSIGNMENTS AND COSTS**

**FITCH H. BEACH AIRPORT  
CHARLOTTE, MICHIGAN**  
Project No. B-26-0018-1713  
Contract No. FM 23-02-C17

**CONSTRUCTION PHASE SERVICES: Runway 2/20 – Concrete Joint Repair**

[illegible]

## ATTACHMENT "E"

### **Scope of Work/Services Construction Phase Services Runway 2/20 – Concrete Joint Repair Fitch H. Beach Airport**

#### **General**

The project includes Construction Phase (2) services listed in Article 1 of the Contract as amended in "Construction Phase Scope of Work".

#### **Construction Phase Scope of Work**

Professional services fees are based on a construction schedule of 6 calendar days based upon construction schedules for full time work identified by the contractor. Fees are further based on the following:

##### Task 1 – Administration

1. General project administration & Contract document processing
2. IDRs & Pay Applications

##### Task 2 – Meetings

1. Attend and conduct pre-construction, construction kick-off, and final inspection meeting.
2. Conduct one (1) weekly progress meetings.

##### Task 3 – Construction Staking

1. Not Anticipated

##### Task 4 – Materials Testing / Field Testing

1. Consultant shall provide concrete testing.

##### Task 5 – Office Coordination

1. Contractor coordination
2. Processing of requests for information and submittals.

##### Task 6 – Field Observation

1. Consultant shall provide full-time field observation for five days during construction operations during runway closure and taxiway work, and one day for apron concrete work.

##### Task 7 – Not Used

##### Task 8 – Project Closeout

1. Preparation of electronic final submission report as described in MDOT Project Final Closeout Checklist distributed by email on March 11, 2015 and modified as shown below:
  - a. n/a
2. Submittal of electronic copy record plans to MDOT and Sponsor
3. Electronic submission of Airport Layout Plan updated for this project.



**Somat Engineering,**  
INCORPORATED

April 24, 2015  
P150134\_REV

Mr. Bob Nelesen, P.E., M.B.A.  
Prein&Newhof  
3355 Evergreen Drive, NE  
Grand Rapids, Michigan 49525

RE: Proposal to Provide Construction Inspection and Testing Services  
Fitch H. Beach Municipal Airport  
Runway 2-20, Portions of Connector Taxiway, and  
Portions of Apron Concrete & Joint Rehabilitation  
City of Charlotte, Michigan

Dear Mr. Nelesen:

Somat Engineering, Inc. is pleased to submit this proposal to provide construction inspection and material testing services associated with the Fitch H. Beach Municipal Airport – Runway 2-20, Portions of Connector Taxiway, and Portions of Apron Concrete and Joint Rehabilitation project located in the City of Charlotte, Michigan. We have received and reviewed the email Request for Proposal (RFP) dated March 27, 2015 which included the Scope of Services, Durations, Project Drawings, and MDOT Project Proposal. Once the contractor was selected for the project, it was brought to our attention that the schedule and staffing needs have been revised by Prein&Newhof, and are estimated to consist of consulting durations and associated costs proposed herein.

The major quantities per item associated with this project include:

ITEM NUMBER	ITEM DESCRIPTION	UNIT	BID QUANTITY		
			TOTAL	#FED. AID	#NON-FED.
1000400	Mobilization and General Conditions	LS	1	1	
1000410	Safety and Security	LS	1	1	
6057001	Misc. Remove And Replace Concrete Joint Sealant - Type I	Lft	1,400	1,400	
6057001	Misc. Remove and Replace Concrete Joint Sealant - Type II	Lft	35,000	35,000	
5017011	Misc. 5" + Concrete Pavement Panel Replacement, Reinforced	Syd	90	90	
8007010	Misc. Concrete Spall Repair	Sft	100	100	
8007010	Misc. Concrete Diamond Grinding	Sft	1,125	1,125	
6200517	Airport Pavement Marking, Solid Black	Sft	4,005	4,005	
6200534	Airport Pavement Marking, Solid, White, With Reflective Beads	Sft	12,500	12,500	



From the contract documents, we understand that Prein&Newhof is preparing a fee for the MDOT Office of Aeronautics and would like to include Inspection and Material Testing Services on this project being provided by Somat. Based on the "Net Classification for Construction," the engineer's estimate for construction was \$206,000. Upon review of the "Project Clause" included in the MDOT proposal, we understand that the estimated starting date for construction is on or about June 1, 2015 with the entire contract being completed in 35 calendar days.

We understand the project will likely be constructed sooner than 35 calendar days based on the contractor's recent projection, and we were requested to price our services for 5 (12 hour) field days for the runway and taxiway construction services; and 1 field day for concrete testing associated with minor apron repairs.

Therefore, we have prepared our proposal and associated lump sum fees as outlined below based on our understanding of the project requirements, anticipated consulting schedule and frequency, and the durations provided in the referenced RFP. For the basis of our proposed lump sum fee, we estimate that construction testing services for this project will require **6 field consulting days totaling 70 field inspection and testing hours** including the associated management, testing, travel and reporting.

The testing services outlined in the RFP will be completed by MDOT certified staff in compliance with MDOT, FAA, AASHTO, and ASTM guidelines and standards. The following is a unit cost breakdown based on criteria listed in the project documents including the specified frequencies, estimated quantities and units for inspection, testing, laboratory testing, management, and reporting:

Work Item / Reimbursable Items	Units	Quantity	Unit Cost	Total Cost
Runway and Taxiway (Inspection)	Day	5	\$1064	*\$5,320
Apron (PCC Inspection & Testing)	Day	1	\$807	*\$807
Concrete Cylinders	Each	3	\$25	\$75
Concrete Cylinder Pick Ups	Trip	1	\$141	\$141
Management & Reporting	LS	1	\$665	\$665
<b>TOTAL ESTIMATED COST</b>				<b>\$7,008</b>

*\*Includes daily vehicle transportation costs of \$100 per day.*

The costs listed above are based on criteria set forth in the RFP and includes travel time costs to/from the project site (portal to portal) from our Grand Rapids facility as well as the necessary field time, laboratory time, transportation, equipment fees, clerical, management, and reporting. Each task will be billed at the unit rate proposed above as a lump sum for actual work performed by Somat.

If consulting services are required beyond the scope and units outlined herein, we propose the following fee schedule based on title and unit billing rates listed on the next page:



**Additional Scope of Work, Title Billing Rates**

Senior Project Manager:	\$125.00 / Hour
Project Manager / Project Engineer:	\$115.00 / Hour
Field Services Coordinator:	\$69.00 / Hour
Field Engineering Technician / Inspector:	\$69.00 / Hour
Bituminous Plant Inspector / Office Tech:	\$69.00 / Hour
Clerical:	\$49.00 / Hour

**Additional Scope of Work, Equipment and Transportation Unit Rates**

Troxler Density Gauge:	\$50.00 / Day
Vehicle Transportation Fee:	\$100.00 / Day
Sample Pickup:	\$141.00 / Trip

**Additional Scope of Laboratory Testing Unit Rates**

Proctors:	\$250.00 / Test
Gradations (Sieve Analysis):	\$150.00 / Test
Beams (Flexural Strength Specimen):	\$28.00 / Test
Cylinder (Compressive Strength Specimen):	\$25.00 / Test

We appreciate the opportunity to submit our proposal for your review and consideration, and we look forward to providing construction testing services to you on this project. Upon your review, should you have any questions or require additional information, please do not hesitate to call us at (616) 575-9230.

Sincerely,  
**Somat Engineering, Inc.**

Micah J. Brooks  
Construction Engineer  
Area Supervisor - Construction Services  
West Michigan

MB/SE/nf

Attachments:           General Conditions  
                              Derivation of Lump Sum Cost Estimate (REV 04.24.2015)

Sharmyn Elliott  
Vice President





Runway 2-20, Portions Connector Taxiway, and  
Portions Apron Concrete & Joint Rehab

	hours	days	hours	
<b>Runway &amp; Taxiway Inspection</b> Inspector / Field Engineer Inspector / Field Engineer OT	5	40.0 hours	@	\$69.00 /hour
		20.0 hours	@	\$103.00 /hour
	Subtotal			\$4,820.00
	Troxler	\$0.00		\$0.00
	Vehicle	\$100.00		\$500.00
			5	\$1,064
				\$5,320
<b>Apron PCC (I &amp; T)</b> Inspector / Field Engineer Inspector / Field Engineer OT	1	8.0 hours	@	\$552.00
		1.5 hours	@	\$154.50
	Subtotal			\$706.50
	Troxler	\$0.00		\$0.00
	Vehicle	\$100.00		\$100.00
				1
				\$807
<b>Project Meetings</b> Construction Engineer Field Services Coordinator	0	0.0 hours	@	\$0.00
	0	0.0 hours	@	\$0.00
	Subtotal			\$0.00
	Vehicle	\$100.00		\$0.00
				0
				\$0
<b>Laboratory Testing</b> Cylinders Proctors Cylinder Pickups	3	tests	@	\$75.00
	0	tests	@	\$0.00
	1	Each	@	\$141.00
	Subtotal			\$216.00
<b>Management &amp; Report Preparation</b> Sr. Project Manager Project Manager (Project Engineer) Field Services Coordinator/Office Tech Clerical	1.0	hours	@	\$125.00 /hour
	2.0	hours	@	\$230.00
	2.0	hours	@	\$138.00
	3.5	hours	@	\$171.50
	Subtotal			\$664.50
			1	\$665
				\$665

\$7,008

**TOTAL COST: \$7,007.00**

Management % of Budget	9%
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